

Sri Lanka Institute of Information Technology

IT3021- Data Warehousing and Business Intelligence

Assignment 2

2022

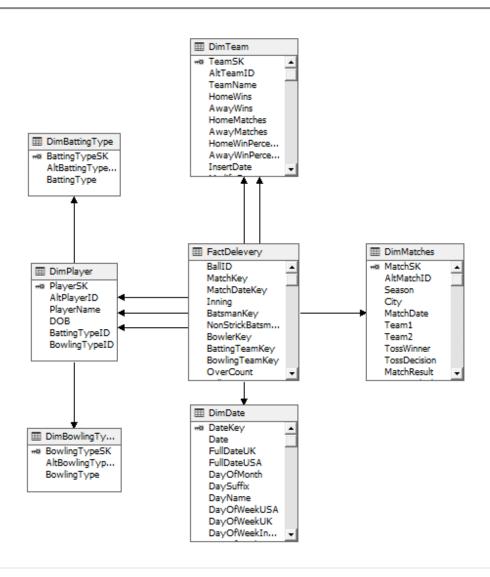
Submitted By: W.H.C. ALWIS IT20101510

Data Source

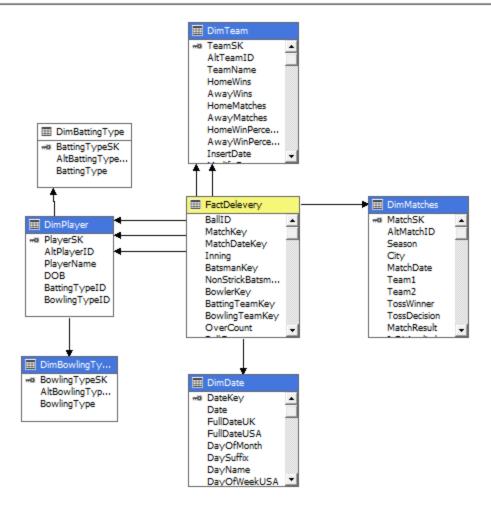
For this purpose, use Data warehouse which implemented in last Assignment (Assignment1). This includes data on several IPL cricket match seasons.

SSAS Cube

In here first create data source view using implemented data dimensions and fact table.

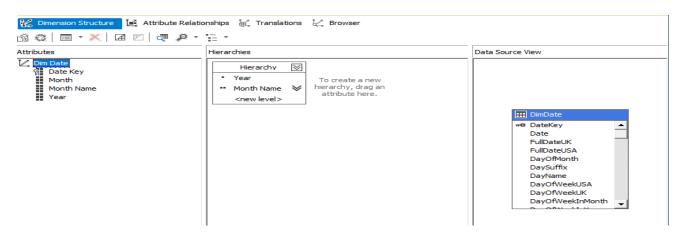


Then create Data Cube,

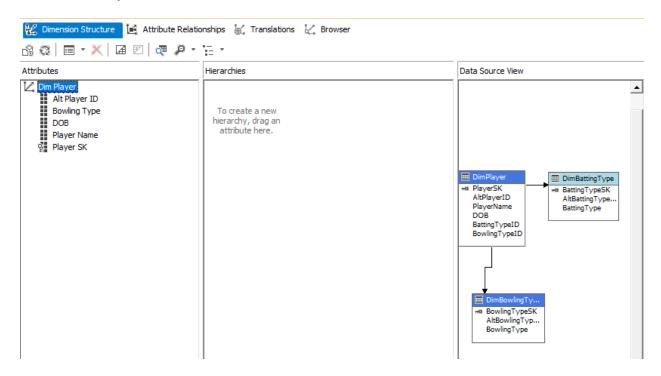


After that configure all the dimension with proper way

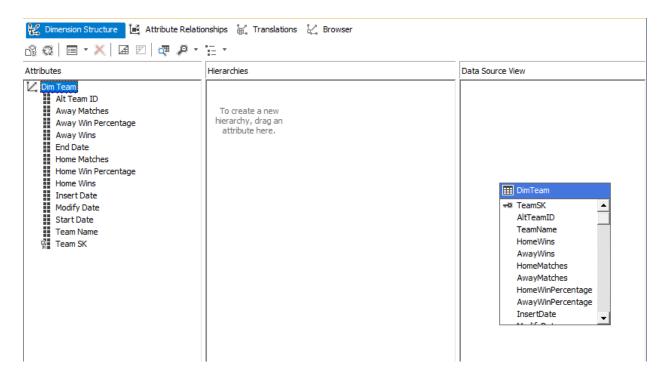
DimDate



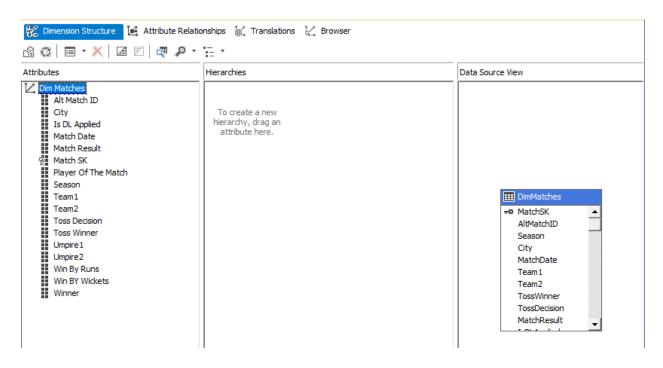
• DimPlayer



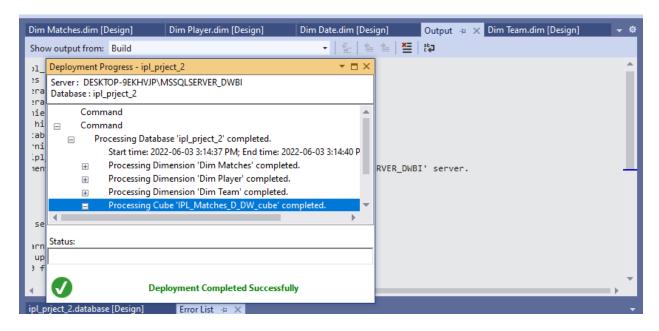
• DimTeam



• DimMatches



Then Deploy the Cube.

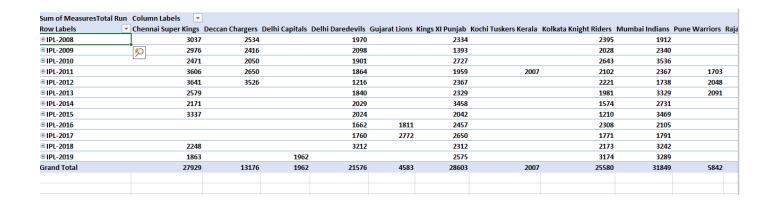


OLAP Operation

• Roll Up

To perform aggregation on a data cube by climbing up a hierarchy or by climbing down a hierarchy we use roll up.

According to the my scenario I have used season wise team total runs



• Drill-Down

Stepping down a dimension's hierarchy allows for navigating across details. Data is broken down into smaller chunks. It's the opposite of the roll-up approach.

	☐ Chennai Super Kings									
Row Labels	Deccan Chargers	Delhi Capitals	Delhi Daredevils	Kings XI Punjab	Kochi Tuskers Kerala	Kolkata Knight Riders	Mumbai Indians	Pune Warriors	Rajasthan Royals	Royal Challenge
□ IPL-2008										
January	-		341	l						
February	292								219	
March				344	1		314			
April										
May									327	
November				447	7					
December							410			
⊞ IPL-2009	612		308	3 567	7	377			290	
⊞ IPL-2010	523		225	,		273	981		469	
⊞ IPL-2011	311		334	1 381	L 55	9 479		259	329	
■ IPL-2012	622		579	243	3	661	910	626		
⊞ IPL-2013			555			386	336	291	285	
⊞ IPL-2014				n of MeasuresTota ue: 555	l Run	572			273	
⊞ IPL-2015				v: IPL-2013		600	317		615	
■ IPL-2016			1		er Kings - Delhi Daredevils					
⊞ IPL-2017					,					
⊞ IPL-2018			424	1		376	356		726	
⊞ IPL-2019		285		667	1		276		356	

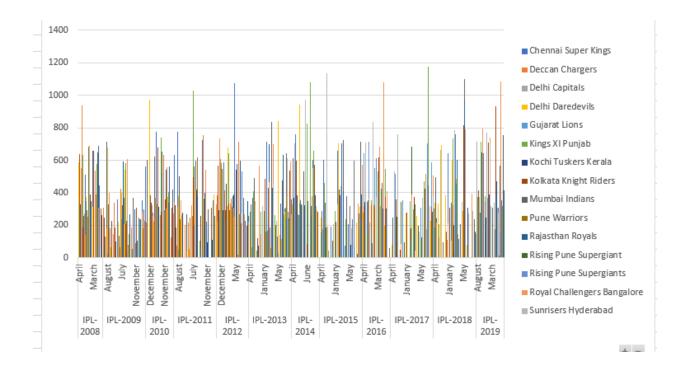
• Slicing

Sum of MeasuresBats	man Run Column Labels 🎜		Team Name	ÿ≡ \ 3
Row Labels	Rajasthan Royals	Grand Total	·	
IPL-2008	1714	1714	Chennai	Deccan
IPL-2009	1345	1345	Delhi Ca	Delhi Da
IPL-2010	2178	2178	Gujarat L	Kings XI
IPL-2011	1196	1196		
IPL-2012	3078	3078	Kochi Tu	Kolkata
IPL-2013	2219	2219	Mumbai	Pune W
IPL-2014	1956	1956	Daiastha	Dising D
IPL-2015	1602	1602	Rajastha	Rising P
IPL-2018	2401	2401	Rising P	Royal Ch
IPL-2019	1608	1608	Sunriser	
Grand Total	19297	19297		J

Dice

Sum of MeasuresBatsman Ru	n Column Labels		Team 1 Name	$\sqrt{\times}$	Team 2 Name	X
		Grand Total	Chennai Super Kings	^	Delhi Daredevils	^
Row Labels	Kolkata Knight Riders				Cuianattiana	
IPL-2009	535	535	Deccan Chargers		Gujarat Lions	
IPL-2010	246	246	Delhi Daredevils		Kings XI Punjab	
IPL-2012	328	328	Cuigrat Lians		Kochi Tuskers Kerala	
IPL-2013	255	255	Gujarat Lions		ROCHI TUSICIS RCIUIU	
IPL-2014	271	271	Kings XI Punjab		Kolkata Knight Riders	
IPL-2015	650	650	Kochi Tuskers Kerala		Pune Warriors	
IPL-2017	312	312	Roem ruskers kerulu			1
IPL-2018	667	667	Mumbai Indians		Rajasthan Royals	
Grand Total	3264	3264	Pune Warriors	1	Rising Pune Superg	
				~		7

Pivot



SSRS Reports

• Report 01:

Report with Matrix



• Report 02

Report with more than one parameter

There are 2 parameters in this report.

-Season and Team



Season Wise Total Runs by Teams

Season wise Runs IPL-2012	Total	
Pune Warriors	2048	2048
Total	2048	2048

• Report 3 SSRS drill-down report

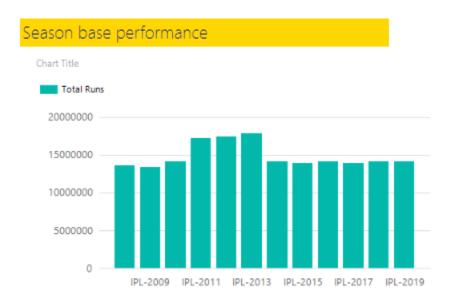
В	all by Ball mark	of the mathc										
	□Over#1										⊞ _{Over} #2	⊞ _{Over#3}
Match	Ball #1	Ball #2	Ball #3	Ball #4	Ball #5	Ball #6	Ball #7	Ball #8	Ball #9	Total	Total	Total
Match #1	1	0	4	2	6	4	1			18	17	22
Match #2	2	4	2	6	4	0	1			19	23	21
Match #3	1	4	1	0	5	4				15	21	23
Match #4	1	0	4	1	1	0				7	15	12
Match #5	1	5	0	5	0	5	3			19	13	15
Match #6	0	1	2	1	1	1				6	18	33
Match #7	1	1	5	0	2	5	4	1		19	15	25
Match #8	1	1	5	0	1	0				8	13	23
Match #9	1	1	1	2	5	1	1			12	18	23
Match #10	0	1	0	0	5	2				8	18	15
Match #11	1	4	4	2	4	0	0			15	21	25
Match #12	1	1	3	1	0	2	2	0		10	4	18
Match #13	4	1	1	1	6	5	4	0		22	20	14
Match #14	1	2	2	1	1	1	0			8	11	14
Match #15	0	1	4	1	0	4				10	13	16
Match #16	1	٥	0	1	1		2			0	าก	17

	Ball by Ball m	ark of the math	IC									
	⊞ _{Over} #1	⊞ _{Over} #2	⊞ _{Over#3}	⊞Over#4	⊞ _{Over} #5	⊞ _{Over} #6	⊞ _{Over} #7	⊞ _{Over} #8	⊞ Over #9	⊞Over#10	⊞Over#11	⊞ _{Over} #12
Match	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Total	Tota
Match #1	18	17	22	19	14	23	12	24	20	17	23	15
Match #2	19	23	21	17	11	29	6	13	19	17	14	11
Match #3	15	21	23	16	18	32	35	15	10	22	19	23
Match #4	7	15	12	24	22	11	10	9	9	17	20	7
Match #5	19	13	15	15	7	15	14	20	7	15	11	17
Match #6	6	18	33	15	11	16	14	13	7	16	20	15
Match #7	19	15	25	22	11	16	15	15	6	9	12	21
Match #8	8	13	23	18	10	13	13	14	20	18	16	18
Match #9	12	18	23	17	15	27	6	8	8	15	15	19
Match #10	8	18	15	15	12	27	18	12	13	22	14	16
Match #11	15	21	25	26	26	20	18	15	19	26	9	6
Match #12	10	4	18	6	14	10	19	5	13	15	11	16
Match #13	22	20	14	23	27	19	19	23	14	7	15	10
Match #14	8	11	14	19	20	13	9	7	19	14	23	17
Match #15	10	13	16	14	21	15	13	11	11	23	15	16
Match #16	n	20	17	10	າາ	24	10	16	24	11	n	11

• Report 04

SSRS drill-through report

This report include season base total runs



In this diagram shows season wise team total marks

